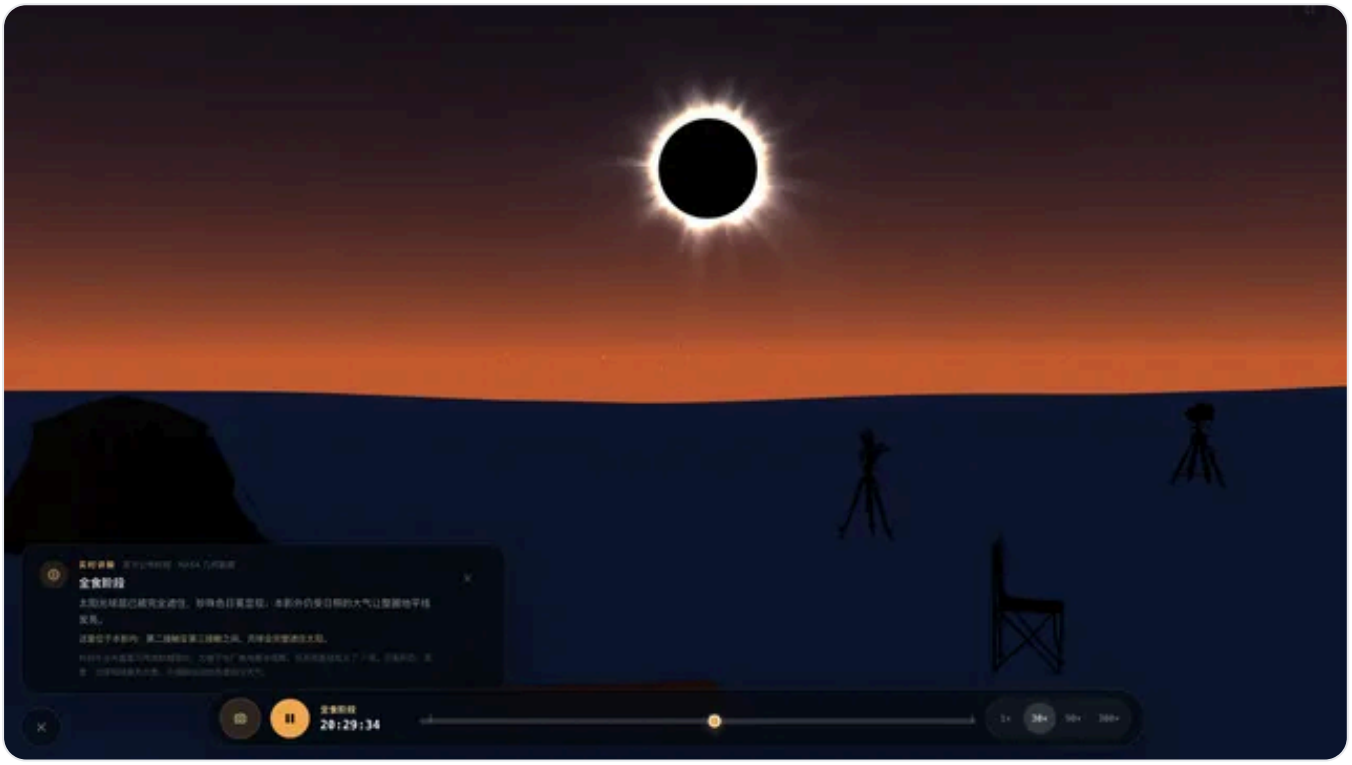
2026 Solar Eclipse Simulator

Replay the August 12 total eclipse in interactive 3D from any location, with local times, obscuration, the path of totality and viewing guidance.



About

2026 Solar Eclipse Simulator is an interactive 3D tool for replaying the August 12, 2026 total solar eclipse from any location. Choose any city or click any point on Earth to see local contact times, obscuration, totality duration, Sun altitude, and the horizon. The tool covers the path of totality across Siberia, Greenland, Iceland, and northern Spain, including prepared locations such as Burgos (1 minute 44 seconds of totality) and Palma de Mallorca (1 minute 36 seconds).

What is 2026 Solar Eclipse Simulator

2026 Solar Eclipse Simulator is a web-based, first-person 3D tool that reconstructs the

only a flat map of the Moon's shadow, the simulator rebuilds the Sun, Moon, and local horizon, then replays the event with local contact times, obscuration, totality duration, and Sun altitude. It covers the full path of totality from Siberia through the Arctic, Greenland, Iceland, and northern Spain, ending at sunset over the Balearic Sea. Prepared viewing locations include Scoresby Sund (2 minutes 17 seconds of totality), Reykjavík (1 minute 1 second), Burgos (1 minute 44 seconds), and Palma de Mallorca (1 minute 36 seconds).

Key features

- Any-location replay: search a city or drop a pin anywhere on the globe, including places outside totality, to see partial eclipse circumstances.
- Local circumstances: first contact, maximum eclipse, totality or partial coverage, Sun altitude above the horizon, and the local skyline.
- Interactive 3D timeline: pause, scrub, speed up, share, or export the first-person sky simulation.
- Prepared viewing locations: built-in spots use published local contact times; custom map points are estimated on-device from Besselian elements.
- Path of totality detail: the simulation shows Saros 126 (48 of 72), greatest eclipse at 17:45:54 UTC, magnitude 1.0386, path width 294 km, and longest totality 2 minutes 18 seconds.
- Phase guidance: an optional explanation can describe what is happening at each stage from first contact to the end of the event.

How to use it

1. Open the simulator in a web browser on make3dmap.com.
2. Search for a city or place a pin on the map to choose your observing location.
3. Review the displayed local eclipse circumstances, including contact times and obscuration.
4. Play the timeline to watch the sky change in 3D, scrubbing to specific phases or altering speed.
5. Use the share or export options to save or send the simulated view.

This eclipse viewer is aimed at astronomy enthusiasts, educators, students, and anyone planning to observe the August 12, 2026 event. It is especially useful for people in northern Spain, Iceland, Greenland, or other parts of the partial eclipse zone who want a preview of what the sky will look like from their exact spot. Travelers deciding between cities like Burgos, Gijón, Oviedo, Santander, Bilbao, Zaragoza, and Palma can compare totality durations and Sun altitude.

What to know before you use it

2026 Solar Eclipse Simulator is a teaching and preview tool, not a replacement for an observatory ephemeris, weather forecast, or local horizon survey. The visual model of the corona, atmospheric brightness, and scenery is illustrative and does not predict cloud cover or terrain blockage. Prepared location times are based on published sources, but custom map points are on-device estimates. For safe viewing, always follow official eclipse eye safety guidelines and consult a professional astronomical source for precise timings when planning a trip. Overall, 2026 Solar Eclipse Simulator is a practical way to explore the eclipse geometry before committing to a viewing location.

FAQ

- Is 2026 Solar Eclipse Simulator free to use?
- What locations can I preview with the 2026 Solar Eclipse Simulator?
- Can I use it on my phone or tablet?
- How accurate are the eclipse contact times?
- What does the simulator show for my location?
- Does the simulator show exactly what the sky will look like?

Which cities in Spain are inside the path of totality?

Is this an official astronomy source for final observing times?

Is the 2026 Solar Eclipse Simulator free?

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2026-solar-eclipse-simulator

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Launched	Aug 2026
Updated	12 days ago
Verified	16 days ago

TAGS

interactive-3d # map-based # totality # education

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